

Wireless Communications

Q1.

Wireless Networks becoming increasing popular.

- a. List the four main applications for wireless LANs.
- b. Explain the 'hidden node' problem in an IEEE802.11 networks and how it is overcome.

Q2.

The IEEE802.11 Distributes Infrastructure System comprises of two services, BSS and ESS.
Explain
the functionality of these two services.

Q3.

GSM uses the frequency band 890-915 MHz for Mobile to Base and 935-960 MHz for Base to Mobile. Each radio Channel has 200 kHz bandwidth.

- (i) What is the total number of available 2-way radio channels?
- (ii) Each radio channel is divided into 8 time slots. What is the total number of mobile calls that can be simultaneously serviced?